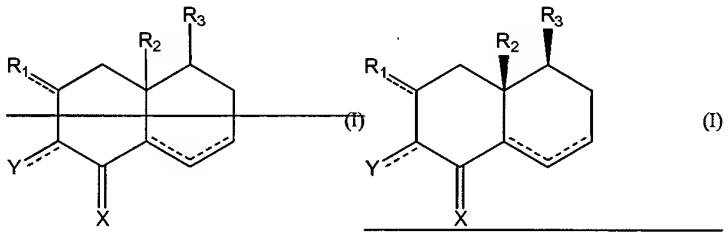
AMENDMENTS TO THE CLAIMS

1.-25. **(Canceled)**

26. **(Currently amended)** A method for controlling pests, said method comprising exposing said pests to a pest-controlling effective amount of a compound of formula (I) or a tautomer thereof or a composition comprising at least one compound of formula (I) or a tautomer thereof:



wherein:

X is selected from O, S or N-R_4;

when ------ is a single bond attached to Y, Y is selected from the group consisting of H, $[C(R_7)_2]_n$halo, $[C(R_7)_2]_nOR_5$, $[C(R_7)_2]_nSR_5$, $[C(R_7)_2]_n(C=O)R_6$, $[C(R_7)_2]_n(C=S)R_6$, $[C(R_7)_2]_nN(R_4)_2$, $[C(R_7)_2]_n(C=NR_4)R_6$, $[C(R_7)_2]_nNO_2$ and $[C(R_7)_2]_nNR_4OR_8$;

when ------ is a double bond attached to Y, Y is O;

when ------ is a single bond attached to R_1, the substituent R_1 has a stereochemistry syn to substituents R_2 and R_3 and R_1 is selected from the group consisting of H, OH, SH, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_4-C_{10} cycloalkylalkyl, C_4-C_{10} cycloalkenylalkyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heterocyclylalkyl, C_5-C_{13} heterocyclylalkenyl, C_1-C_{10} alkoxy, C_2-C_{10} alkenyloxy, C_1-C_{10} alkylthio, C_2-C_{10} alkenylthio, $[C(R_7)_2]_n$halo, $[C(R_7)_2]_n(C=O)R_6$, $[C(R_7)_2]_n(C=S)R_6$, $[C(R_7)_2]_nN(R_4)_2$, $[C(R_7)_2]_n(C=NR_4)R_6$, $[C(R_7)_2]_nNO_2$ and $[C(R_7)_2]_nNR_4OR_8$;

when ------ is a double bond attached to R_1, R_1 is $CR_{1a}R_{1b}$ wherein R_{1a} and R_{1b} are independently selected from C_1-C_{10}alkyl;

R_2 and R_3 are independently selected from the group consisting of H, OH, SH, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl,

C_3-C_6 cycloalkenyl, C_4-C_{10} cycloalkylalkyl, C_4-C_{10} cycloalkenylalkyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heterocyclylalkyl, C_5-C_{13} heterocyclylalkenyl, C_1-C_{10} alkoxy, C_2-C_{10} alkenyloxy, C_1-C_{10} alkylthio, C_2-C_{10} alkenylthio, $[C(R_7)_2]_n$halo, $[C(R_7)_2]_n(C=O)R_6$, $[C(R_7)_2]_n(C=S)R_6$, $[C(R_7)_2]_nN(R_4)_2$, $[C(R_7)_2]_n(C=NR_4)R_6$, $[C(R_7)_2]_nNO_2$ and $[C(R_7)_2]_nNR_4OR_8$;

each R_4 is independently selected from the group consisting of H, OH, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_4-C_{10} cycloalkylalkyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heterocyclylalkyl, C_5-C_{13} heterocyclylalkenyl, C_1-C_{10} alkoxy and C_2-C_{10} alkenyloxy;

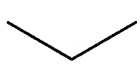
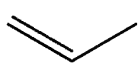
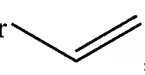
R_5 is selected from the group consisting of H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_4-C_{10} cycloalkylalkyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heterocyclylalkyl, C_5-C_{13} heterocyclylalkenyl, $(C=O)R_6$, PO_3R_8, SO_3R_8 and SO_2R_8;

R_6 is selected from the group consisting of H, OH, C_1-C_{10} alkoxy, C_1-C_{10} alkyl, C_2-C_{10} alkenyloxy, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_6-C_{10} aryloxy, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_3-C_6 cycloalkyloxy, C_3-C_6 cycloalkenyloxy, C_3-C_{10} heterocyclyl, C_3-C_{10} heterocyclyloxy, C_1-C_{10} alkylthio, C_1-C_{10} alkenylthio, C_6-C_{10} arylthio, C_3-C_6 cycloalkylthio, and C_3-C_{10} heterocyclylthio;

R_7 is selected from the group consisting of H, halogen, OR_5, SR_5, $N(R_4)_2$, $(C=O)R_6$, $(C=S)R_6$, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_3-C_{10} heterocyclyl, C_3-C_6 cycloalkyl, C_7-C_{12} arylalkyl, C_4-C_{12} heterocyclylalkyl, C_4-C_{10} cycloalkylalkyl, C_8-C_{13} arylalkenyl, C_5-C_{13} heterocyclylalkenyl, and NO_2;

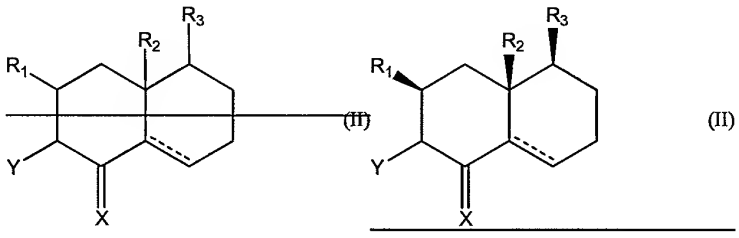
R_8 is selected from the group consisting of H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_4-C_{10} cycloalkylalkyl, C_5-C_{10} cycloalkylalkenyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heteocyclylalkyl and C_5-C_{13} heterocyclylalkenyl;

n is 0 or an integer selected from 1 to 5;

 represents  ,  or  ; and

wherein each alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl and heterocyclyl group is optionally substituted.

27. **(Currently amended)** A method according to claim 26 wherein the compound of formula (I) is a compound of formula (II):



wherein:

X is selected from the group consisting of O, S or N-R_4;

Y is selected from the group consisting of H, $[C(R_7)_2]_n$halo, $[C(R_7)_2]_nOR_5$, $[C(R_7)_2]_nSR_5$, $[C(R_7)_2]_n(C=O)R_6$, $[C(R_7)_2]_n(C=S)R_6$, $[C(R_7)_2]_nN(R_4)_2$, $[C(R_7)_2]_n(C=NR_4)R_6$, $[C(R_7)_2]_nNO_2$ and $[C(R_7)_2]_nNR_4OR_8$;

R_1, R_2 and R_3 are independently selected from the group consisting of H, OH, SH, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_4-C_{10} cycloalkylalkyl, C_4-C_{10} cycloalkenylalkyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heterocyclylalkyl, C_5-C_{13} heterocyclylalkenyl, C_1-C_{10} alkoxy, C_2-C_{10} alkenyloxy, C_1-C_{10} alkylthio, C_2-C_{10} alkenylthio, $[C(R_7)_2]_n$halo, $[C(R_7)_2]_n(C=O)R_6$, $[C(R_7)_2]_n(C=S)R_6$, $[C(R_7)_2]_nN(R_4)_2$, $[C(R_7)_2]_n(C=NR_4)R_6$, $[C(R_7)_2]_nNO_2$ and $[C(R_7)_2]_nNR_4OR_8$;

each R_4 is independently selected from the group consisting of H, OH, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_4-C_{10} cycloalkylalkyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heterocyclylalkyl, C_5-C_{13} heterocyclylalkenyl, C_1-C_{10} alkoxy and C_2-C_{10} alkenyloxy;

R_5 is selected from the group consisting of H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_4-C_{10} cycloalkylalkyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heterocyclylalkyl, C_5-C_{13} heterocyclylalkenyl, $(C=O)R_6$, PO_3R_8, SO_3R_8 and SO_2R_8;

R_6 is selected from the group consisting of H, OH, C_1-C_{10} alkoxy, C_1-C_{10} alkyl, C_2-C_{10}

alkenyloxy, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_6-C_{10} aryloxy, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_3-C_6 cycloalkyloxy, C_3-C_6 cycloalkenyloxy, C_3-C_{10} heterocyclyl, C_3-C_{10} heterocyclyloxy, C_1-C_{10} alkylthio, C_1-C_{10} alkenylthio, C_6-C_{10} arylthio, C_3-C_6 cycloalkylthio, and C_3-C_{10} heterocyclylthio;

R_7 is selected from the group consisting of H, halogen, OR_5, SR_5, $N(R_4)_2$, $(C=O)R_6$, $(C=S)R_6$, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_3-C_{10} heterocyclyl, C_3-C_6 cycloalkyl, C_7-C_{12} arylalkyl, C_4-C_{12} heterocyclylalkyl, C_4-C_{10} cycloalkylalkyl, C_8-C_{13} arylalkenyl, C_5-C_{13} heterocyclylalkenyl, and NO_2;

R_8 is selected from the group consisting of H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_4-C_{10} cycloalkylalkyl, C_5-C_{10} cycloalkylalkenyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heteocyclylalkyl and C_5-C_{13} heterocyclylalkenyl;

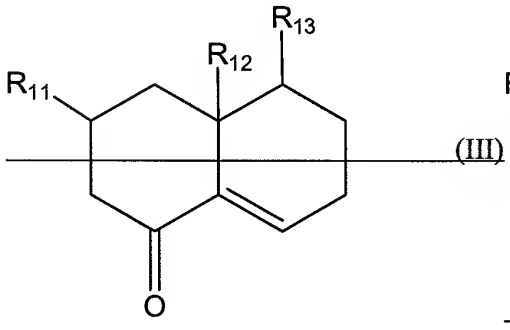
n is 0 or an integer selected from 1 to 5;

-------- represents a single or double bond; and

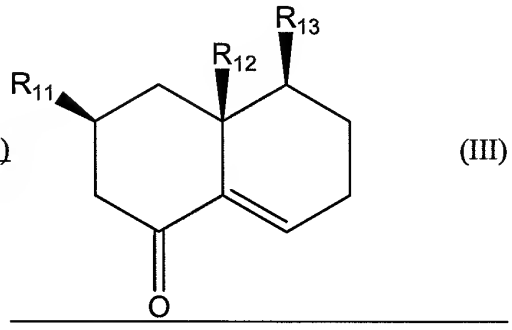
wherein each alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl and heterocyclyl group is optionally substituted.

28. **(Canceled)**

29. **(Currently amended)** A method according to claim 26, wherein at least one compound of formula (I) is a compound of formula (III):



(III)



(III)

wherein

R_{11} is selected from the group consisting of C_2-C_{10} alkenyl, C_7-C_{12} arylalkyl, C_6-C_{12} heteroarylalkyl and C_2-C_{10} alkenyloxy wherein each C_2-C_{10} alkenyl or C_2-C_{10} alkenyloxy is optionally substituted with 1 to 3 halo, hydroxy, thiol or nitro groups; and

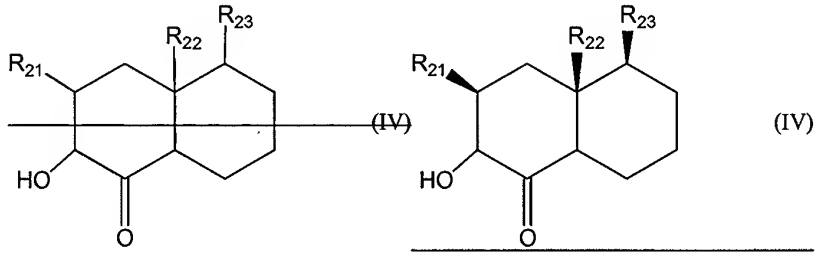
R_{12} and R_{13} are independently selected from the group consisting of H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_3-C_{10} cycloalkyl, C_5-C_{10} heteroaryl, C_6-C_{12} heteroarylalkyl and C_1-C_{10} alkoxy, wherein each C_1-C_{10} alkyl and C_1-C_{10} alkoxy is optionally substituted with 1 to 3 halo, hydroxy, thiol or nitro groups.

30. **(Previously presented)** A method according to claim 29, wherein R_{11} is C_2-C_{10} alkenyl optionally substituted with a hydroxy, nitro or thiol group or 1 to 3 halo groups, and R_{12} and R_{13} are independently selected from C_1-C_{10} alkyl optionally substituted with a hydroxy, nitro or thiol group or 1 to 3 halo groups.

31. **(Previously presented)** A method according to claim 26 wherein at least one compound of formula (I) is eremophilone.

32. **(Canceled)**

33. **(Withdrawn- Currently amended)** A method according to claim 26 wherein at least one compound of formula (I) is a compound of formula (IV):



wherein R_{21}, R_{22} and R_{23} are independently selected from the group consisting of H, OH, SH, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_4-C_{10} cycloalkylalkyl, C_4-C_{10} cycloalkenylalkyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heterocyclylalkyl, C_5-C_{13} heterocyclylalkenyl, C_1-C_{10} alkoxy, C_2-C_{10} alkenyloxy, C_1-C_{10} alkylthio, C_2-C_{10} alkenylthio, $[C(R_7)_2]_n$halo, $[C(R_7)_2]_n(C{=}O)R_6$, $[C(R_7)_2]_n(C{=}S)R_6$, $[C(R_7)_2]_nN(R_4)_2$, $[C(R_7)_2]_n(C{=}NR_4)R_6$, $[C(R_7)_2]_nNO_2$ and $[C(R_7)_2]_nNR_4OR_8$;

each R_4 is independently selected from the group consisting of H, OH, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl,

C_4-C_{10} cycloalkylalkyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heterocyclylalkyl, C_5-C_{13} heterocyclylalkenyl, C_1-C_{10} alkoxy and C_2-C_{10} alkenyloxy;

R_6 is selected from the group consisting of H, OH, C_1-C_{10} alkoxy, C_1-C_{10} alkyl, C_2-C_{10} alkenyloxy, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_6-C_{10} aryloxy, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_3-C_6 cycloalkyloxy, C_3-C_6 cycloalkenyloxy, C_3-C_{10} heterocyclyl, C_3-C_{10} heterocyclyloxy, C_1-C_{10} alkylthio, C_1-C_{10} alkenylthio, C_6-C_{10} arylthio, C_3-C_6 cycloalkylthio, and C_3-C_{10} heterocyclylthio;

R_7 is selected from the group consisting of H, halogen, OR_5, SR_5, $N(R_4)_2$, $(C=O)R_6$, $(C=S)R_6$, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_3-C_{10} heterocyclyl, C_3-C_6 cycloalkyl, C_7-C_{12} arylalkyl, C_4-C_{12} heterocyclylalkyl, C_4-C_{10} cycloalkylalkyl, C_8-C_{13} arylalkenyl, C_5-C_{13} heterocyclylalkenyl, and NO_2;

R_8 is selected from the group consisting of H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_8-C_{13} arylalkenyl, C_3-C_6 cycloalkyl, C_3-C_6 cycloalkenyl, C_4-C_{10} cycloalkylalkyl, C_5-C_{10} cycloalkylalkenyl, C_3-C_{10} heterocyclyl, C_4-C_{12} heteocyclylalkyl and C_5-C_{13} heterocyclylalkenyl; and

n is 0 or an integer selected from 1 to 5;

wherein each alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl and heterocyclyl group is optionally substituted.

34. **(Withdrawn)** A method according to claim 33 wherein R_{21} is selected from the group consisting of C_2-C_{10} alkenyl, C_7-C_{12} arylalkyl, C_6-C_{12} heteroarylalkyl and C_2-C_{10} alkenyloxy wherein each C_2-C_{10} alkenyl or C_2-C_{10} alkenyloxy is optionally substituted with 1 to 3 halo, hydroxy, thiol or nitro groups; and

R_{22} and R_{23} are independently selected from the group consisting of H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_3-C_{10} cycloalkyl, C_5-C_{10} heteroaryl, C_6-C_{12} heteroarylalkyl and C_1-C_{10} alkoxy, wherein each C_1-C_{10} alkyl and C_1-C_{10} alkoxy is optionally substituted with 1 to 3 halo, hydroxy, thiol or nitro groups.

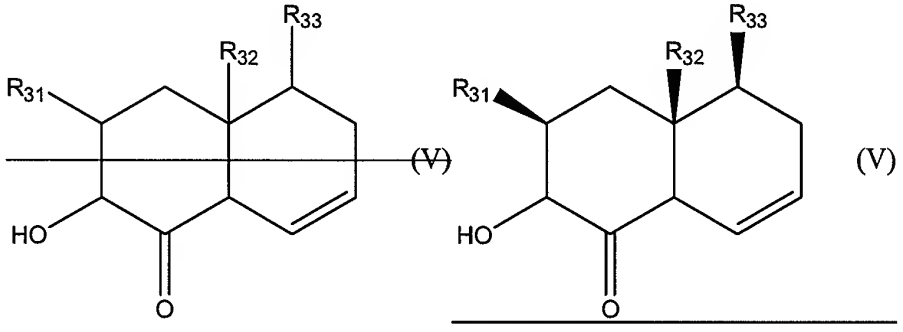
35. **(Withdrawn)** A method according to claim 34 wherein R_{21} is C_2-C_{10} alkenyl, optionally substituted with a hydroxy, thiol or nitro group or 1 to 3 halo groups, and R_{22} and R_{23}

are independently selected from C_1-C_{10} alkyl, optionally substituted with a hydroxy, thiol or nitro group or 1 to 3 halo groups.

36. **(Withdrawn)** A method according to claim 26 wherein at least one compound of formula (I) is 8-hydroxy-1(10)dihydroeremophilone.

37. **(Canceled)**

38. **(Withdrawn- Currently amended)** A method according to claim 26 comprising at least one compound of formula (V):



wherein R_{31} is selected from the group consisting of C_2-C_{10} alkenyl, C_7-C_{12} arylalkyl, C_6-C_{12} heteroarylalkyl and C_2-C_{10} alkenyloxy wherein each C_2-C_{10} alkenyl or C_2-C_{10} alkenyloxy is optionally substituted with 1 to 3 halo, hydroxy, thiol or nitro groups; and

R_{32} and R_{33} are independently selected from the group consisting of H, C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_6-C_{10} aryl, C_7-C_{12} arylalkyl, C_3-C_{10} cycloalkyl, C_5-C_{10} heteroaryl, C_6-C_{12} heteroarylalkyl and C_1-C_{10} alkoxy, wherein each C_1-C_{10} alkyl and C_1-C_{10} alkoxy is optionally substituted with 1 to 3 halo, hydroxy, thiol or nitro groups.

39. **(Withdrawn)** A method according to claim 38 wherein R_{31} is C_2-C_{10} alkenyl optionally substituted with a hydroxy, nitro or thiol group or 1 to 3 halo groups, and R_{32} and R_{33} are independently selected from C_1-C_{10} alkyl optionally substituted with a hydroxy, nitro or thiol group or 1 to 3 halo groups.

40. **(Withdrawn)** A method according to claim 26 wherein at least one compound of formula (I) is 8-hydroxyeremophila-1,11-dienone.

41. **(Previously presented)** A method according to claim 26 wherein the composition comprises an extract containing at least one compound of formula (I) obtained from a volatile oil bearing plant from the Myoporaceae family.

42. **(Canceled)**

43. **(Canceled)**

44. **(Previously presented)** A method according to claim 26 wherein the pest-controlling effective amount is a pesticidally effective amount.

45. **(Previously presented)** A method according to claim 26 wherein the pest-controlling effective amount is a pest-repelling effective amount.

46. **(Previously presented)** A method according to claim 26 wherein the pest-controlling effective amount is a antifeedant effective amount.

47. **(Previously presented)** A method according to claim 26 wherein the pests are selected from the group consisting of insects, arachnids, helminths and molluscs.

48. **(Previously presented)** A method according to claim 26 wherein the pests are selected from the group consisting of termites, earwigs, cockroaches and wood borer beetles and their larvae.

49. **(Previously presented)** A method according to claim 26 wherein the pests are wood associated pests.

50. **(Previously presented)** A method according to claim 49 wherein the wood associated pests are selected from the group consisting of termites and wood borer beetles.

51. **(Previously presented)** A method according to claim 50 wherein the wood associated pests are termites.

52. **(Previously presented)** A method according to claim 26 wherein pests are exposed to the pest-controlling effective amount of a compound of formula (I) or a composition comprising at least one compound of formula (I) by applying the compound or composition to a site of infestation, a potential site of infestation, a habitat of the pest or a potential habitat of the pest.

53. **(Previously presented)** A method according to claim 52 wherein the compound or composition is applied to a surface or impregnated into a material or article of manufacture.

54. **(Previously presented)** A method according to claim 53 wherein the compound or composition is applied to a surface by spraying, coating or painting the surface.

55. **(Previously presented)** A method according to claim 54 wherein the surface is a soil surface, timber, buildings, wooden articles of manufacture or a physical barrier.

56. **(Previously presented)** A method according to claim 55 wherein the material or article of manufacture is soil, timber, timber or wooden products or buildings or parts of buildings.

57. **(Previously presented)** A method according to claim 52 wherein the compound or composition is applied in a band or furrow around a site of infestation or potential infestation or is mixed with a layer of soil at a site of infestation or a potential site of infestation.

58.-78. **(Canceled)**

79. **(Previously presented)** A method of combating an already existing wood associated pest infestation comprising applying at least one compound of formula (I) or a tautomer thereof or a composition comprising at least one compound of formula (I) or a tautomer thereof to a wood associated pest affected surface, wherein the compound of formula (I) is as defined in Claim 26.

80.-82. **(Canceled)**